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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In Re the Application of: Steven J. Spencer and Paul S. Sacks

Docket No.: 210_268DIV

Patent No.: 10/728,207

Patent No.: 6,886,628 B2

Filed: December 4, 2003

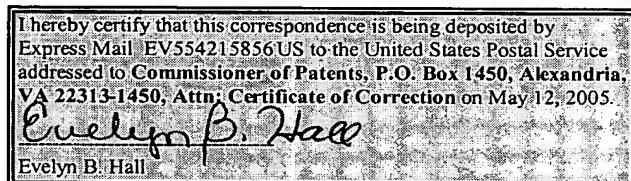
Issued: May 3, 2005

For: HIGH FIN DENSITY COIL DESIGN UTILIZING PRECOATED FIN STOCK

Certificate
MAY 18 2005
of Correction

REQUEST FOR CERTIFICATE OF CORRECTION
PATENT OFFICE ERROR

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Certificate of Correction



Sir:

Receipt of the above-identified patent is hereby acknowledged.

In checking the original patent against our file, however, several errors were noted. The first paragraph in the Specifications is incorrect. The correct serial no. is 10/109,283, and the filing date was to be omitted. Attached for your review, please find the Amendment dated August 31, 2004.

It is, therefore, requested that a Certificate of Correction be issued as per the attached form PTO 1050 submitted herewith in duplicate.

Because the error resulted from the Office, it is expected that no fee is required. However, the Director is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-0289. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

WALL MARJAMA & BILINSKI LLP

By: 

Owen D. Marjama

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MAY 23 2005

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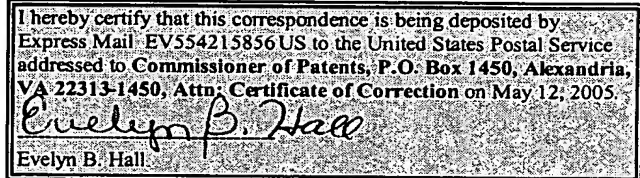
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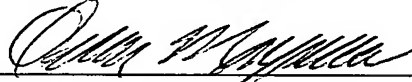
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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,886,628 B2
DATED : May 3, 2005
INVENTOR(S) : Steven J. Spencer et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

SPECIFICATIONS

Column 1, Lines 1, 2 and 3, please replace the paragraph to read:

-- This is a divisional application of U.S. Serial No. 10/109,283, now U.S. Patent No. 6,742,370, the entirety of which is incorporated herein by reference.--

MAILING ADDRESS OF SENDER:
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101 South Salina Street, 4th Floor
Syracuse, NY 13202
315-425-9000

PATENT NO. 6,886,628 B2

No. of additional copies 1 of 1



MAY 23 2005



Practitioner's Docket No.: 210_268DIV

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Steven J. Spencer et al.

August 31, 2004

Serial No.: 10/728,207

Art Unit: 3753

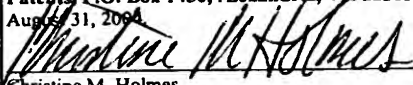
Filed: December 4, 2003

Examiner: Leo, Leonard R.

Confirmation No.: 7945

For: HIGH FIN DENSITY COIL DESIGN UTILIZING PRECOATED FIN STOCK

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 31, 2004.

Christine M. Holmes

AMENDMENT AND RESPONSE

Sir:

In response to the Office Action mailed from the United States Patent and Trademark Office on August 20, 2004, please amend the above-identified application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 4 of this paper.

Serial No.: 10/728,207
Amendment Dated: August 31, 2004
Reply to Office Action of August 20, 2004

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph on page 1 beginning with "This is a divisional"
as follows:

This is a divisional application of ~~pending~~ U.S. Serial No. 10/109,283, now
U.S. Patent No. 6,742,370 ~~filed March 28, 2002~~, the entirety of which is
incorporated herein by reference.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the above-captioned patent application:

Listing of Claims:

1-3. (Cancelled)

4. (Currently Amended) A heat exchanger having a high fin density coil design comprising a series of parallelly spaced fins and a plurality of fluid carrying tubes penetrating said series of parallelly spaced fins, each of said fins having a bottom surface which has an uncoated central area and stripes of a coating material along outer edge areas thereof, and a top surface which is completely coated, said central areas of said fins having a plurality spaced holes, said holes having surrounding collars which are uncoated on the inside surface area and coated on their outside surface, and said tubes being in an assembled array, with each of said tubes passing through said holes in said parallelly spaced fins and being in contact with said uncoated inside surfaces of said collars surrounding said holes.

5. (Original) The heat exchanger of claim 4 in which the fin density is greater than or equal to 17 fins per linear inch.

6. (Original) The heat exchanger of claim 4 in which the fin density is greater than 20 fins per linear inch.

REMARKS/ARGUMENTS

Reconsideration of the above application is hereby requested in view of the above amendments and following remarks.

Claim 4 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Collier.

Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collier in view of Kawanabe et al. Kawanabe et al is relied upon for teaching a fin density greater than or equal to 17 fins per inch.

Claim 4, the only independent claim in the application, has been amended to specifically recite that the fin has a bottom surface which has an uncoated central area and stripes of coating material along the outer edges thereof, and a top surface which is completely coated. The collars are uncoated on their inside surface and are uniformly coated on their outside surface. This structure is now covered by amended independent claim 4 and is illustrated in applicant's drawings (Figs. 2 and 3) and described in column 1, lines 3-10 and 56-65 of applicants' specification.

In contradistinction to applicants' structure, Collier applies a protective coating in the form of spaced stripes on the opposite surfaces of the sheet fin stock in which coated stripes are located in an area along each edge bounding a central area which is uncoated. The uncoated area is perforated to form collars which are adapted to receive one or more tubes to form the heat exchanger and which are completely uncoated. See Colliers specification, column 1, lines 58-68 and Figs. 2 and 3.

It is submitted that, as amended, applicants' now define their invention to define a structure which is neither appreciated nor suggested by Collier. Applicants' recited structure could not be obtained by the Collier reference, which is directed and limited to an uncoated central area and does not deal with the problems which applicants have solved relating to eliminating coated material from the inside of the collars. Furthermore, Collier's collars are completely uncoated both inside and out as set forth in Collier's disclosure and the drawings. Applicants' fin stock however, has a top surface which is completely coated with the collar outer surface also

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containing a uniform coating. See Fig. 3 of applicants' drawings, where the top surface of the fin stock, including the collar, are uniformly coated, while the inside of the collar is uncoated.

With respect to claims 5 and 6, the reference to Kawanabe et al. is subject to the same deficiencies as Collier, and being dependent upon claim 4, it is urged that claims 5 and 5 are also patentable over the prior art for reasons set forth above.

In view of the amendment to claim 4, the only independent claim in the application, it is submitted that the applicants have presented an advance which is not appreciated by the prior art. It is therefore requested that the above rejections be reconsidered and withdrawn and the application passed to issue at an early date.

If the Examiner wishes to expedite disposition of the above-captioned patent application, he is invited to contact Applicant's representative at the telephone number below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-0289.

Respectfully submitted,

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